

SWP Weekly Water Quality Summary

August 4 to 10, 2010

Electrical Conductivity (EC): Concentrations increased slightly at Harvey O. Banks Pumping Plant (HBP), Check 41 and Barker Slough. Concentrations ranged from 185 to 386 $\mu\text{S}/\text{cm}$ (111 to 232 mg/L) and were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). The lowest concentration of 201 $\mu\text{S}/\text{cm}$ (121 mg/L) occurred at Barker Slough, and the highest concentration of 386 $\mu\text{S}/\text{cm}$ (232 mg/L) occurred at Check 41. EC increased at HBP from 241 $\mu\text{S}/\text{cm}$ to 247 $\mu\text{S}/\text{cm}$ (145 to 148 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at HBP and Check 41. Barker Slough had the lowest concentration of 0.05 mg/L , while the highest concentration of 0.15 mg/L occurred at Check 41.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels increased at HBP, but decreased at Check 41 and Barker Slough. Turbidity levels ranged from 3.5 NTU to 56.6 NTU. On August 10, the lowest level of 3.5 NTU occurred at Check 41, while the highest level of 38.4 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 10.1 NTU to 27.2 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased from 2.6 mg/L to 2.2 mg/L at HBP, from 3.6 mg/L to 2.1 mg/L at Check 13, and from 3.5 to 3.4 mg/L at Edmonston Pumping Plant.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP remain low, ranging from non-detect (<1 ng/L) to 9 ng/L at Clifton Court Inlet, HBP, O'Neill Forebay Outlet, Pacheco Pumping Plant Outlet and Lake Perris.

Groundwater pump-ins to the California Aqueduct totaled 2,701 AF. The breakdown of the total volume was:

- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 5 AF
- Semitropic (2&3) Water Storage District = 2,696 AF

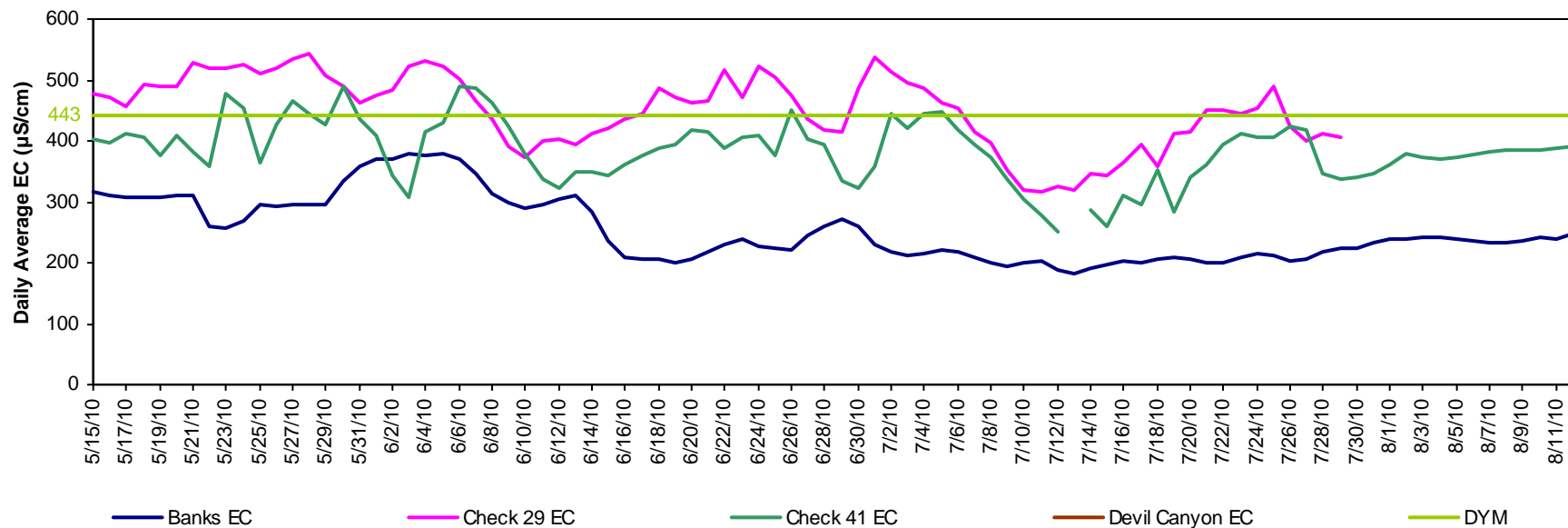
As of August 10, 2010, no data were available for Check 29, Devil Canyon and Vallecitos due to malfunctioning instruments.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

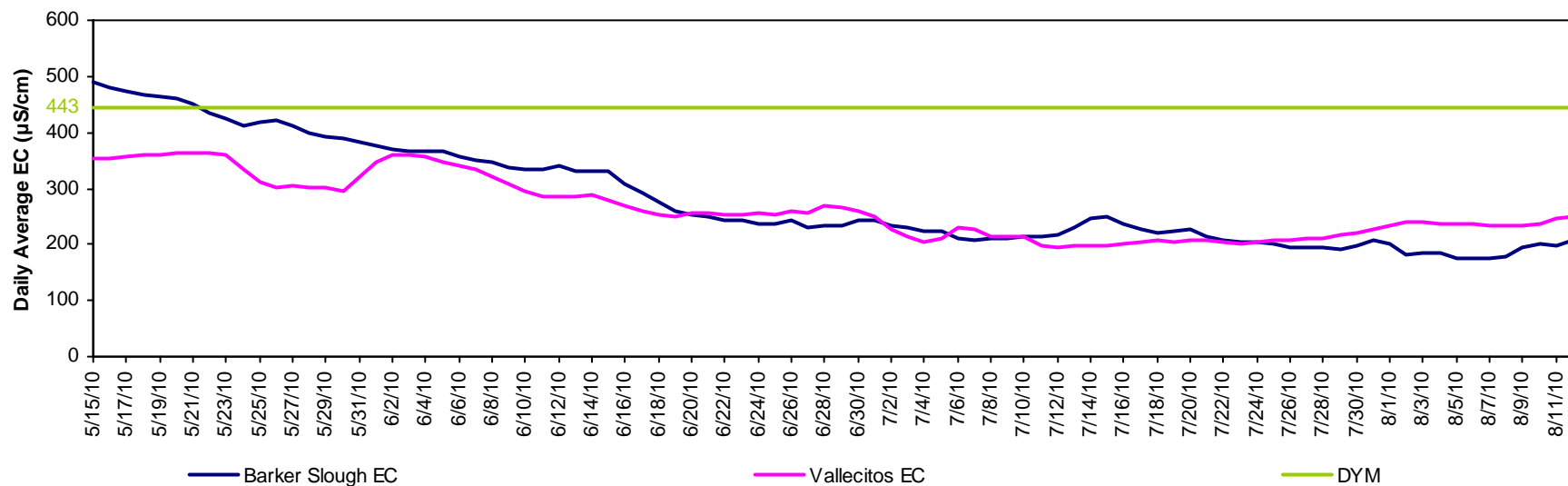
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

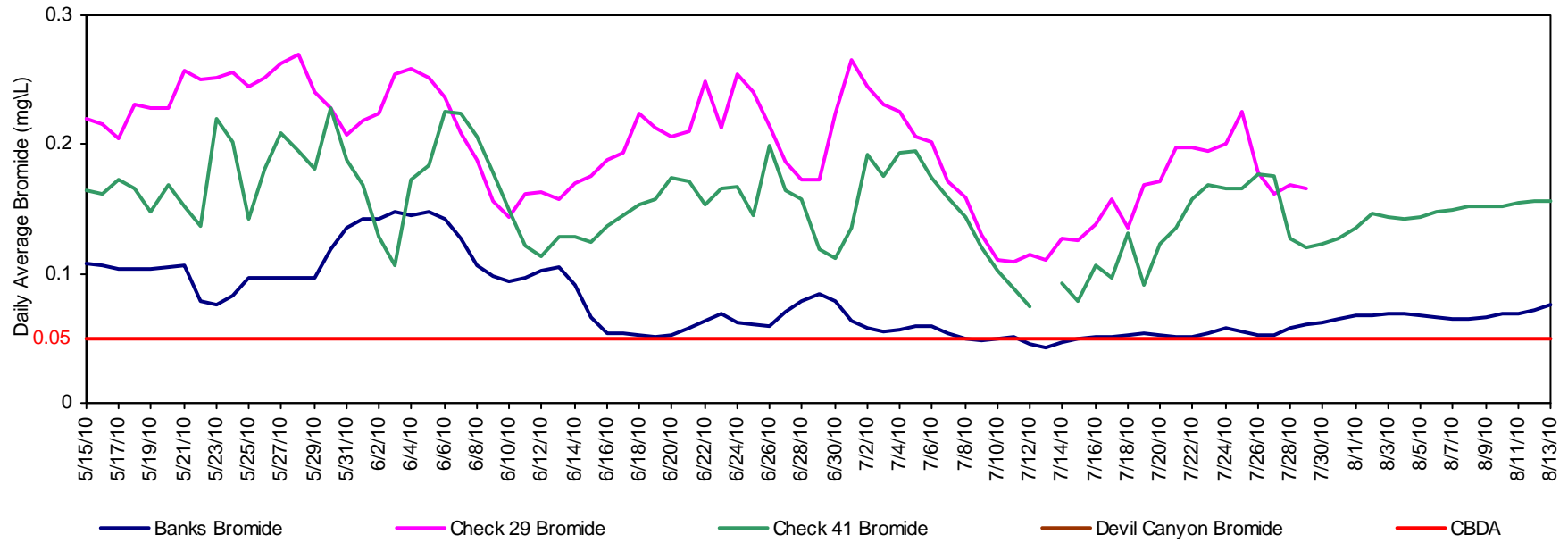
California Aqueduct - Electrical Conductivity



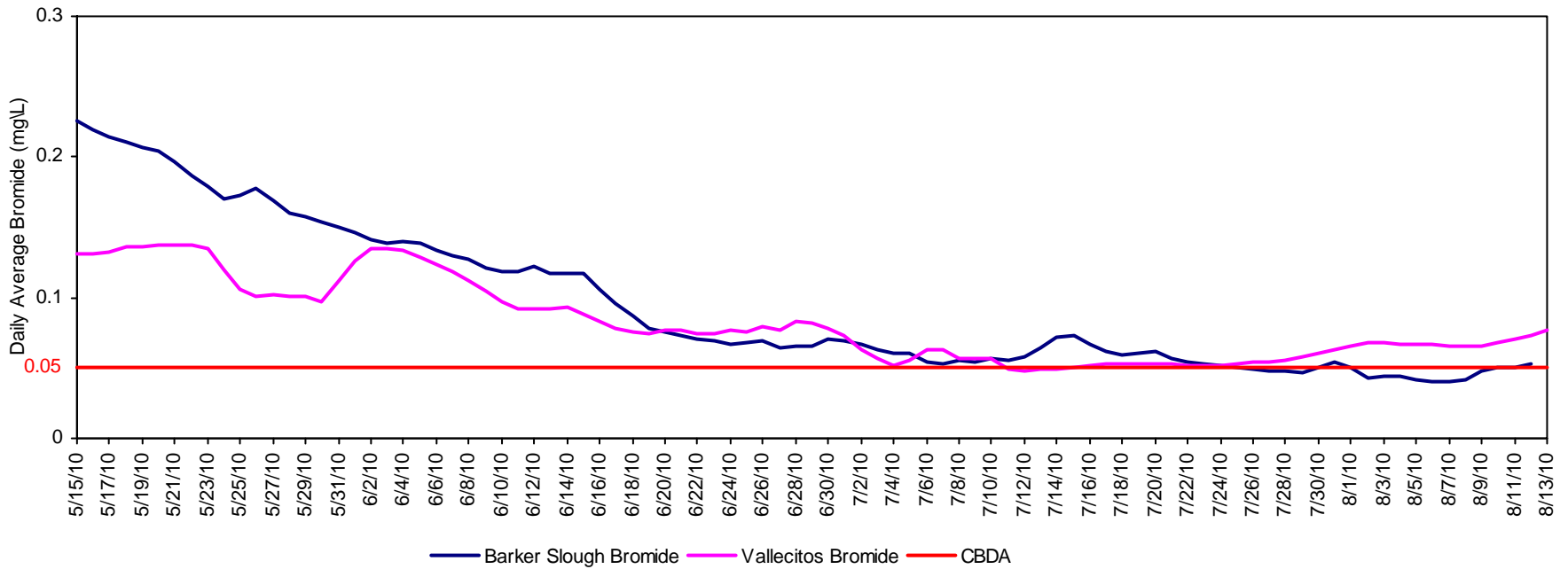
North and South Bay Aqueduct - Electrical Conductivity



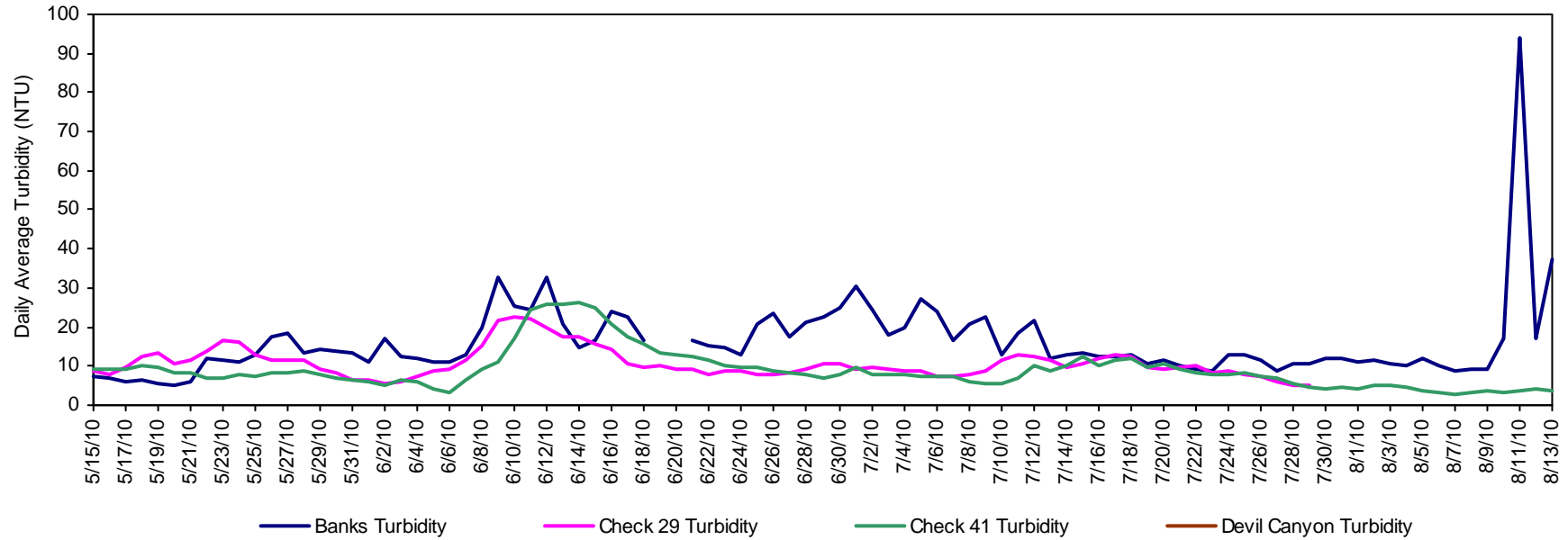
California Aqueduct - Calculated Bromide



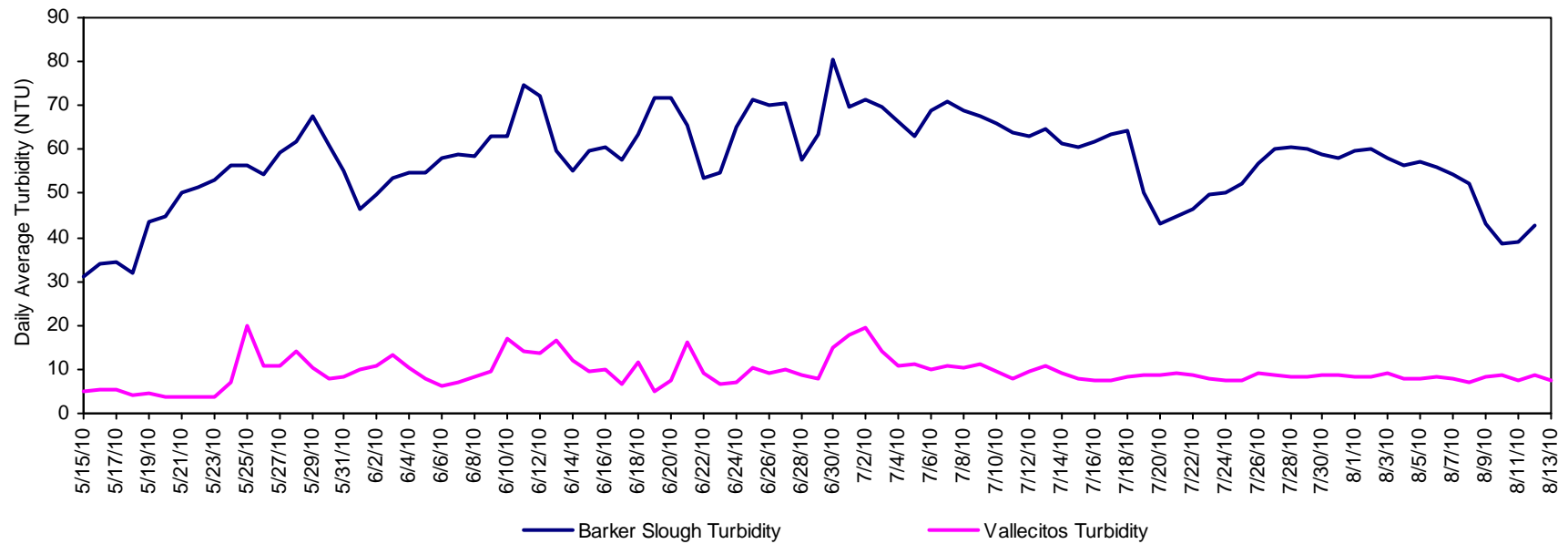
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

